RM Series Power Supplies

Corsair RM Series – Optimized for Silence

SKU Live Date	**September 12, 2013**
Product Full Name/Title	**CORSAIR RM Series – Optimized for Silence**
Part Number/ UPC	**See Below**
Product Imagery	**Image Assets** **Product Launch Kit**
Detailed Specs	**Detailed Specifications**
Compatibility List	**ATX12V v2.4 and EPS 2.92**

Overview (100-Word Product Description, Preferred Copy)

Corsair RM Series power supplies are fully modular and optimized for silence and high efficiency. Zero RPM Fan Mode means that the fan doesn't even spin until the power supply is under heavy load, and the fan is custom-designed for low noise operation even at high loads. 80 PLUS Gold rated efficiency saves you money on your power bill, and the flat black cables are fully modular, so you can enjoy fast, neat builds. And, like all Corsair power supplies, RM Series is built with high-quality components and is guaranteed to deliver clean, stable, continuous power. Connect it to your Corsair Link system and you can even monitor fan speed and +12V current directly from your desktop (additional cable required for 450W-850W units).

Overview (50-Word Product Description)

Corsair RM Series power supplies are optimized for silence, with a custom fan design and Zero RPM Fan Mode. 80 PLUS Gold rated efficiency ensures low-cost operation, and the fully modular flat black cables allow for fast, neat builds. You can even connect it to your Corsair Link system and monitor fan speed and +12V current from your desktop (additional cable required for 450W-850W units).

Overview (25-Word Product Description)

Corsair RM Series are fully modular, optimized for silence, and deliver gold-rated efficiency. Flat black modular cables help ensure fast and neat builds

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Corsair RM Series – Optimized for Silence

Features and Benefits

Optimized for Silence

The efficient design of the RM Series means minimal excess heat generation, and thanks to the Zero RPM fan mode the fan doesn't even need to spin under low to medium loads. The custom-designed fan has an optimized blade profile for low-turbulence airflow and near-silent operation even at full speed. And when you're pushing it hard, the thermal sensor controls the fan speed to ensure that it gets the cooling it needs without any extra noise. The components used to manufacture the RM Series are manufactured specifically for excellent performance and low audible noise.

80 PLUS Gold-certified Efficiency

Highly efficient RM Series power supplies produce less heat and have lower operating costs.

Flat black, Low-Profile Modular Cables

You can use only the cables you need, and leave the rest in the box for fast, easy, and great-looking builds.

Reliable, Continuous Power Delivery

RM Series power ratings are continuous, not peak, for superior protection for your valuable PC. Corsair uses high-quality internal components, and RM Series power supplies are guaranteed to deliver clean, stable, continuous power.

Corsair Link Compatible

Want even more? RM Series power supplies connect to Corsair Link software for real-time monitoring of fan speed and power delivery directly from your desktop. Additional hardware required for 450W-850W units. See corsair.com for more details.

Tech Specs

- The latest ATX12V v2.4 and EPS 2.92 standards and it is backward compatible with ATX12V 2.2, 2.31 and ATX12V 2.01 systems.
- 4th generation Intel® Core™ processor Ready (Intel Haswell and Z78 motherboards)
- 80PLUS Gold certified, delivering over 92% energy efficiency at real world load conditions.
- The completely modular cable system allows you to use only the cables you need.
- Low-profile, flat cable design reduces air friction and helps maximize airflow through your computer's chassis.
- High-quality capacitors provide uncompromised performance and reliability.
- A five year warranty and lifetime access to Corsair's legendary technical support and customer service.
- Active Power Factor Correction (PFC) with PF value of 0.99.
- 135MM NR135L Noise reducing fan. MTBF: 100,000 Hours
- Universal AC input from 100~240V.
- Multi-GPU Ready
- Over-voltage and over-current protection, under-voltage protection, and short circuit protection, over power protection, over temperature protection provide maximum safety to your critical system components.
- Safety and Agency Approvals: FCC, ICES, CE, C TUV US, RCM, TUV, CB, CCC, BSMI, GOST, ROHS, WEEE, ROHS, KC

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Confidential Information

For distribution under NDA only

Model	RM450	
Part No.	CP-9020066	
	AC Input Rating	
AC Input	100-240V	
Input Current	10A-5A	
Frequency	47-63Hz	
	Max Load	Max Output
+3.3V	24A	110W
+5V	22A	
+12V	37.5A	450W
-12V	0.8A	9.6W
+5Vsb	3A	15W
Total Power	450W	

Model	RM550	
Part No.	CP-9020053	
	AC Input Rating	
AC Input	100-240V	
Input Current	10A-5A	
Frequency	47-63Hz	
	Max Load	Max Output
+3.3V	25A	130W
+5V	25A	
+12V	45.8A	550W
-12V	0.8A	9.6W
+5Vsb	3A	15W
Total Power	550W	

Model	RM650	
Part No.	CP-9020054	
	AC Input Rating	
AC Input	100-240V	
Input Current	10A-5A	
Frequency	47-63Hz	
	Max Load	Max Output
+3.3V	25A	130W
+5V	25A	
+12V	54A	650W
-12V	0.8A	9.6W
+5Vsb	3A	15W
Total Power	650W	

Model	RM750	
Part No.	CP-9020055	
	AC INPUT RATING	
AC Input	100 - 240V	
Input Current	10A - 5A	
Frequency	47Hz - 63Hz	
	Max Load	Max Output
+3.3V	25A	150W
+5V	25A	
+12V	62.5A	750W
-12V	0.8A	9.6W
+5Vsb	3A	15W
TOTAL POWER	750W	

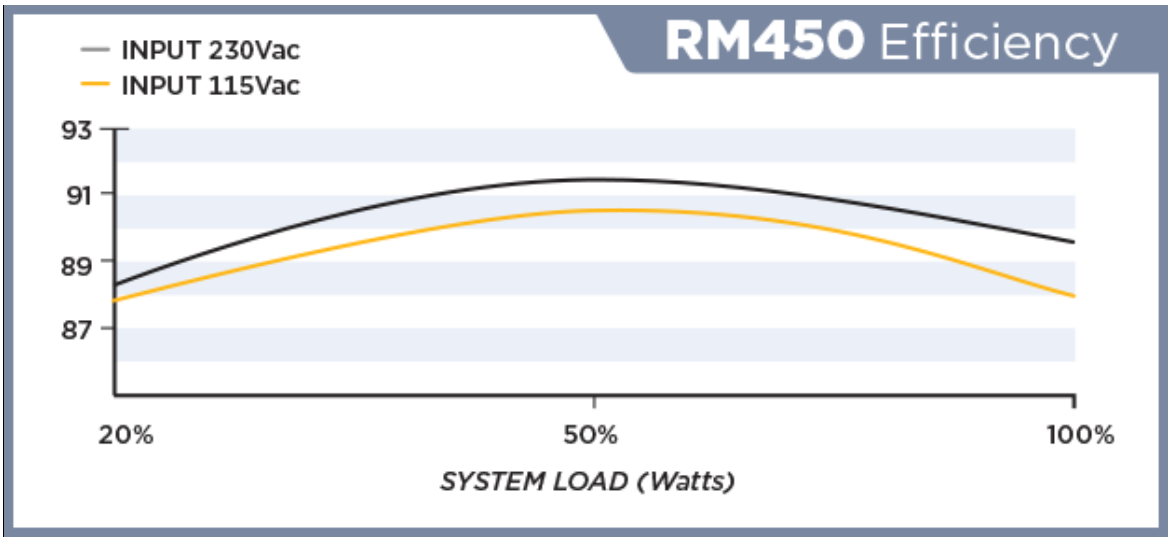
Model	RM850	
Part No.	CP-9020056	
	AC INPUT RATING	
AC Input	100 - 240V	
Input Current	12A - 6A	
Frequency	47Hz - 63Hz	
	Max Load	Max Output
+3.3V	25A	150W
+5V	25A	
+12V	70.8A	850W
-12V	0.8A	9.6W
+5Vsb	3A	15W
TOTAL POWER	850W	

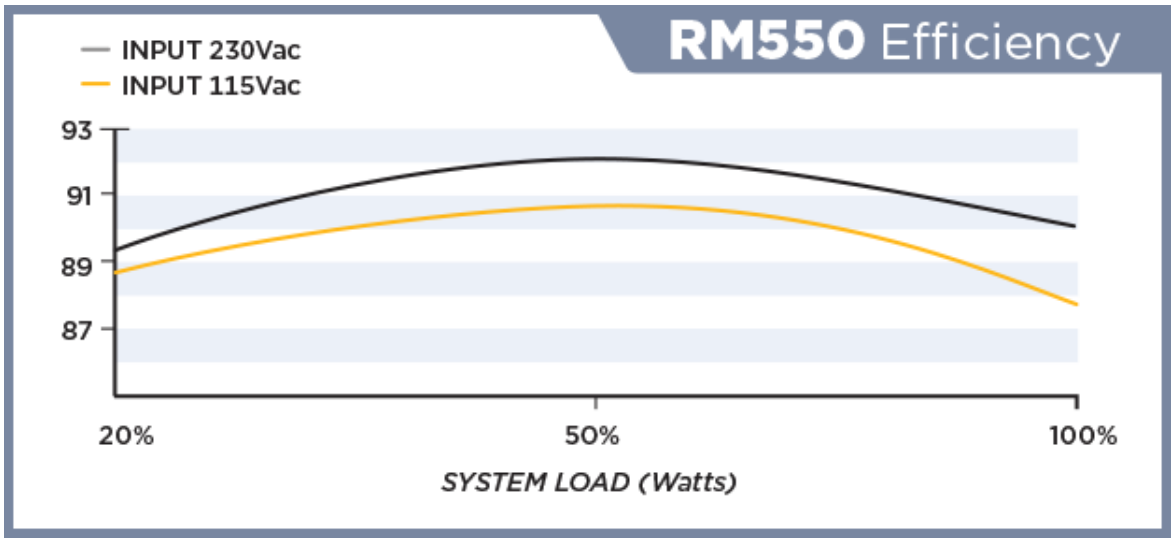
Model	RM1000	
Part No.	CP-9020062	
	AC Input Rating	
AC Input	100-240V	
Input Current	13A-6.5A	
Frequency	47-63Hz	
	Max Load	Max Output
+3.3V	25A	150W
+5V	25A	
+12V	83.3A	1000W
-12V	0.8A	9.6W
+5Vsb	3A	15W
Total Power	1000W	

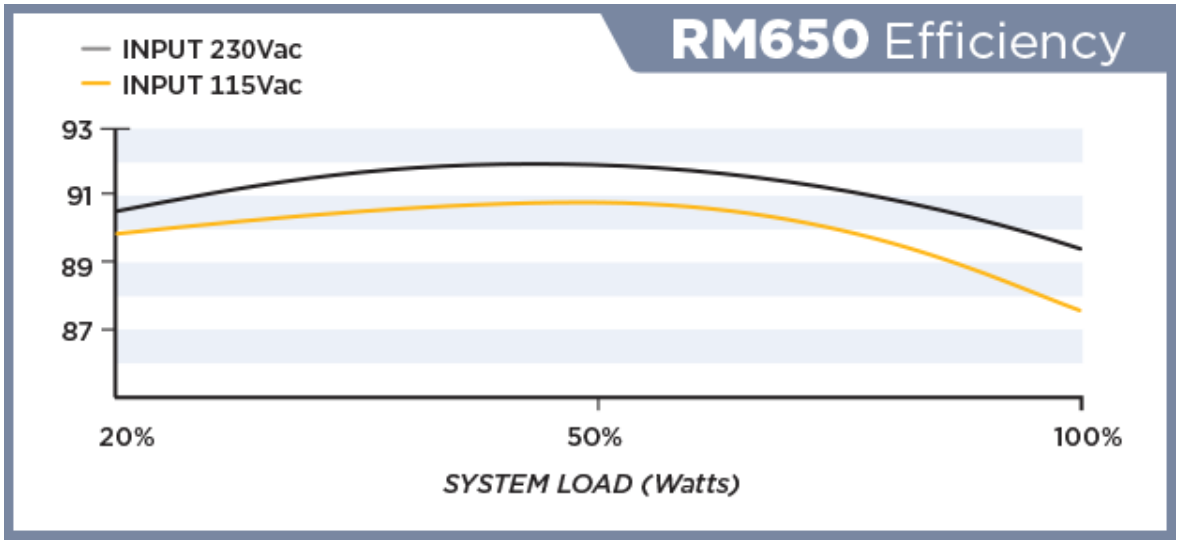
DC Output Cables

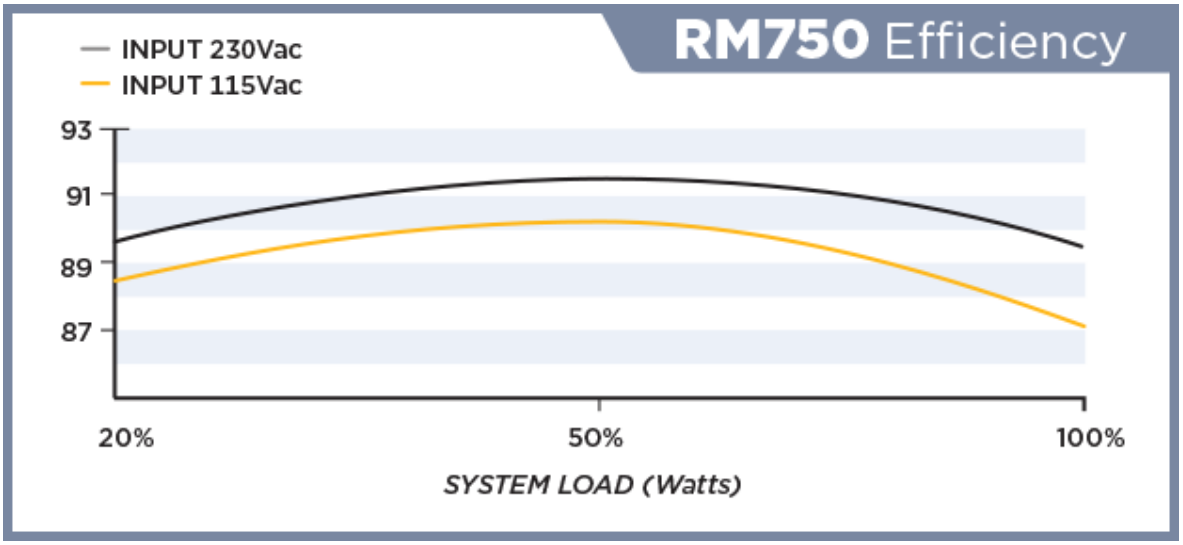
Model Part Number	RM1000 CP-9020062	RM850 CP-9020056	RM750 CP-9020055	RM650 CP-9020054	RM550 CP-9020053	RM450 CP-9020066
Modular cable management	Fully modular	Fully modular	Fully modular	Fully modular	Fully modular	Fully modular
Sleeved cables	No	No	No	No	No	No
Flat cables	Yes	Yes	Yes	Yes	Yes	Yes
Number of cables	15	13	10	10	7	7
Motherboard cable (20+4 pin)	1	1	1	1	1	1
Motherboard cable length (mm, +/- 10mm)	610mm	610mm	610mm	610mm	610mm	610mm
4+4-pin (CPU, works as either 4 or 8-pin)	2	2	1	1	1	1
CPU power cable length (mm, +/- 10mm)	650mm	650mm	650mm	650mm	650mm	650mm
PCIe 6+2 pin (GPU)	8	6	4	4	2	2
PCIe power cable length (mm, +/- 10mm)	750mm	750mm	750mm	750mm	750mm	750mm
4-pin Peripheral power connector	11	8	7	7	4	4
SATA 5-pin connector	12	10	8	8	6	6
Floppy power	2	2	2	2	1	1

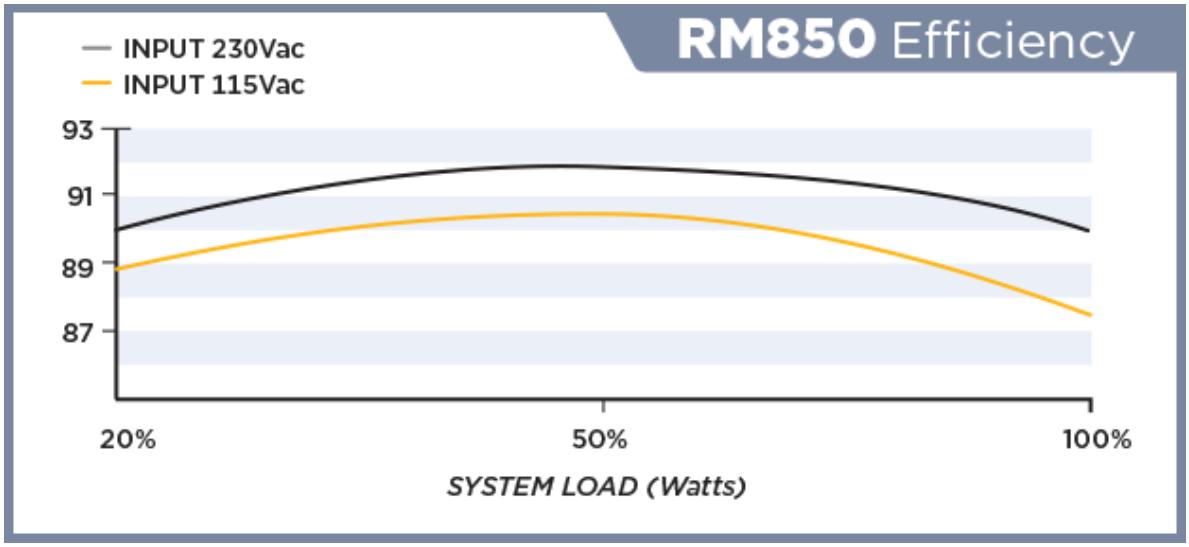
Efficiency (PNG files available in image link above)

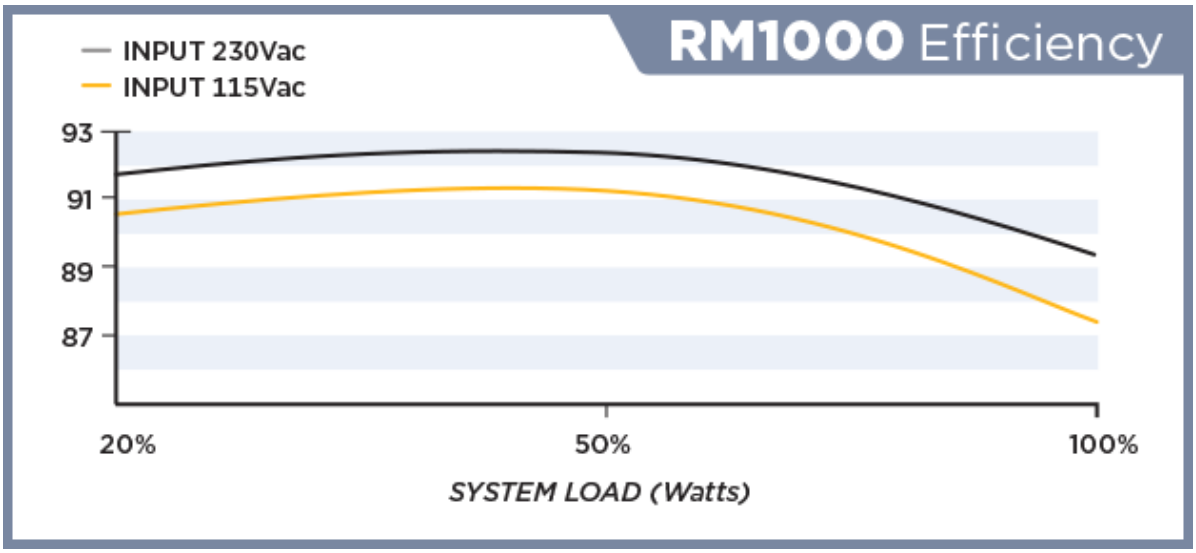




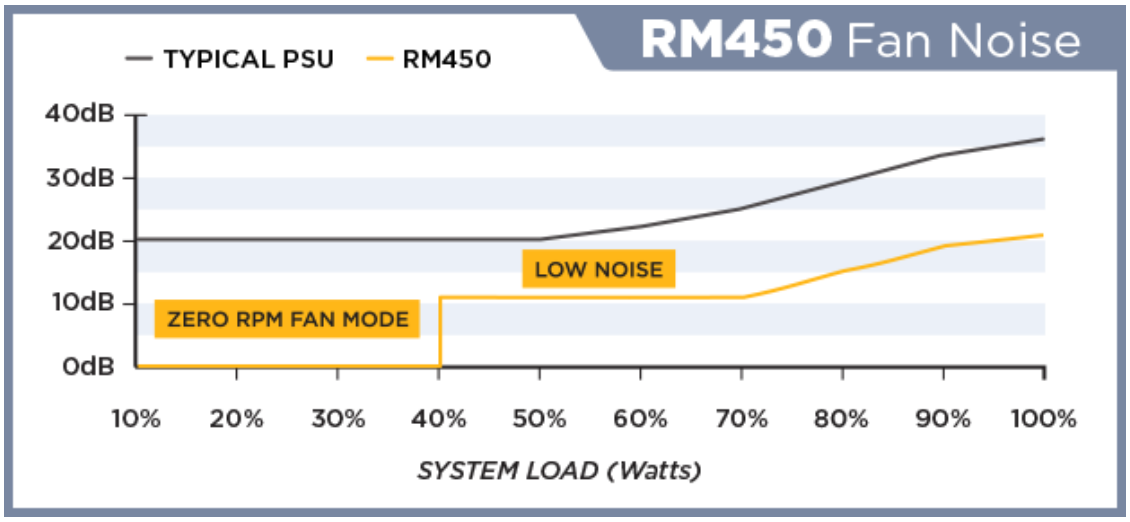


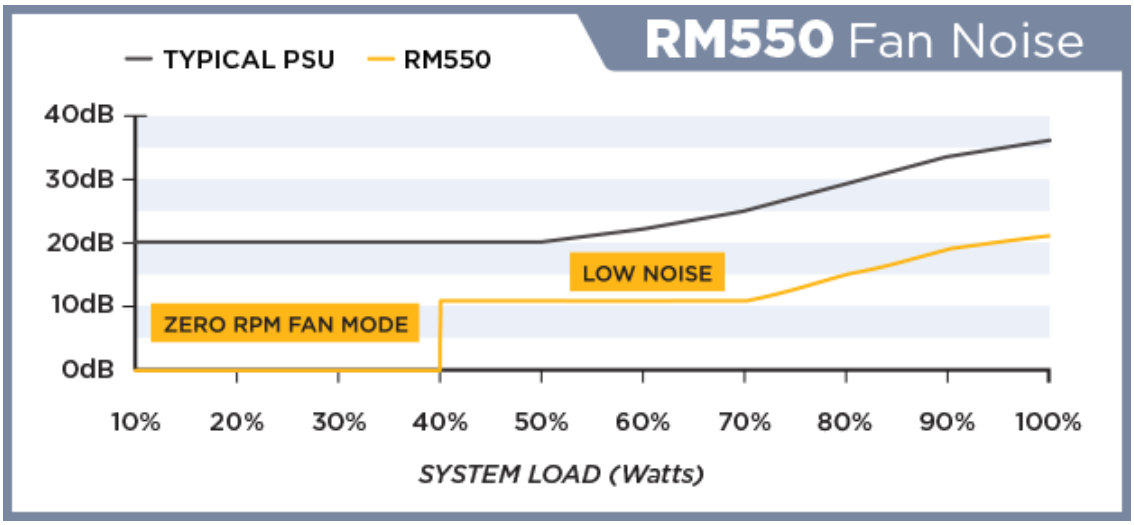

RM750 Efficiency
INPUT 230Vac
INPUT 115Vac
93
91
89
87
20%
50%
100%
SYSTEM LOAD (Watts)

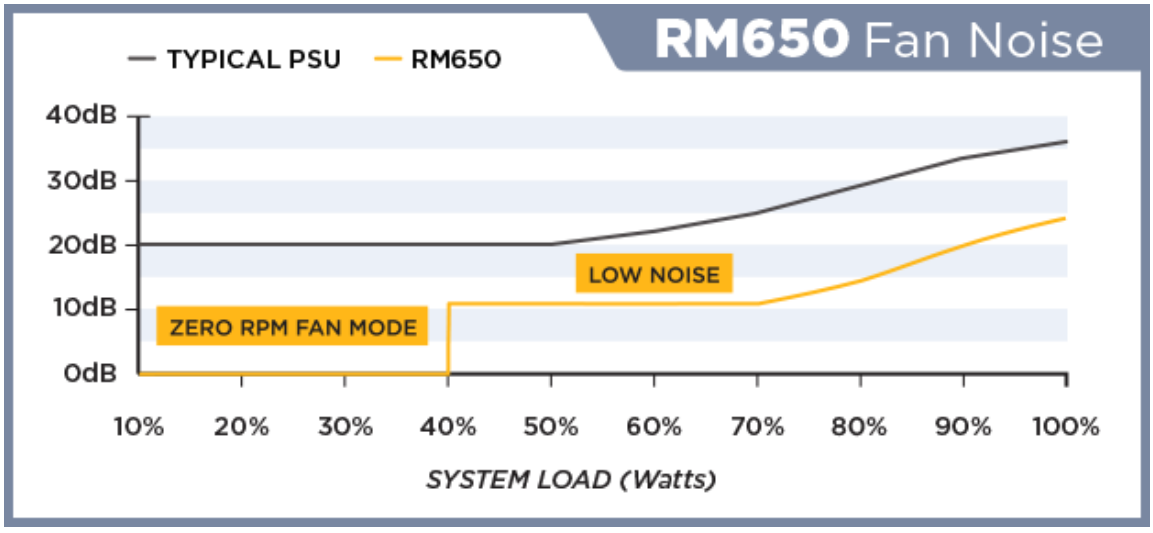

RM850 Efficiency
INPUT 230Vac
INPUT 115Vac
93
91
89
87
20%
50%
100%
SYSTEM LOAD (Watts)

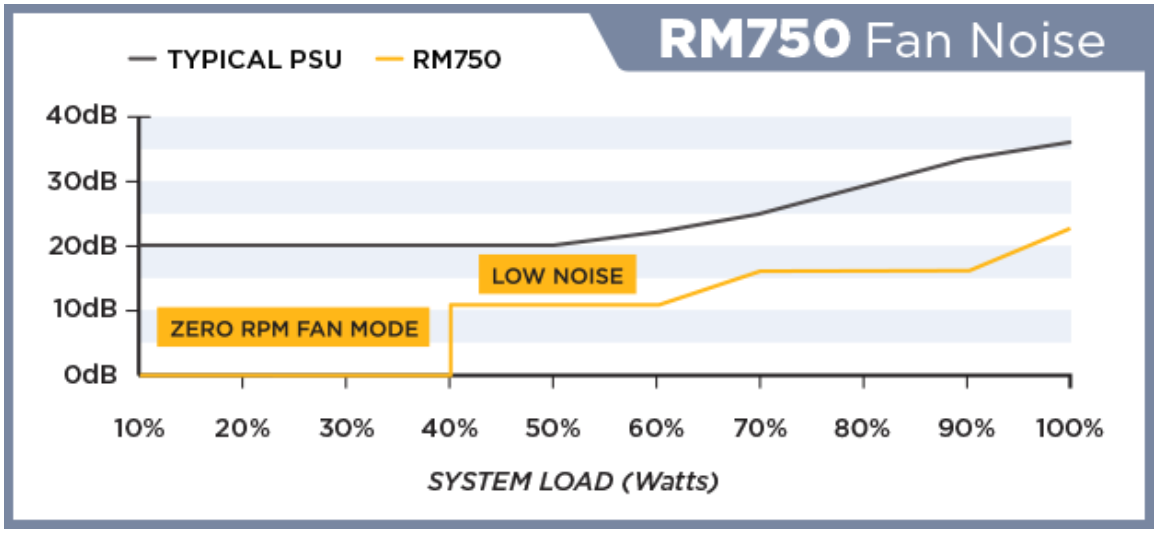

RM1000 Efficiency
INPUT 230Vac
INPUT 115Vac
93
91
89
87
20%
50%
100%
SYSTEM LOAD (Watts)

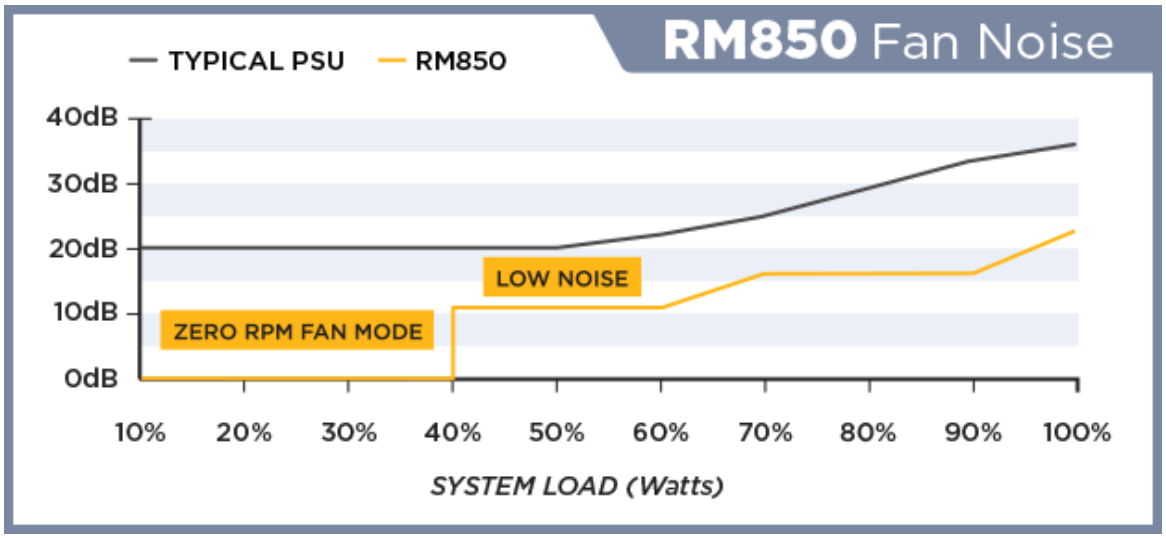
Fan Noise (PNG files available in image link above)

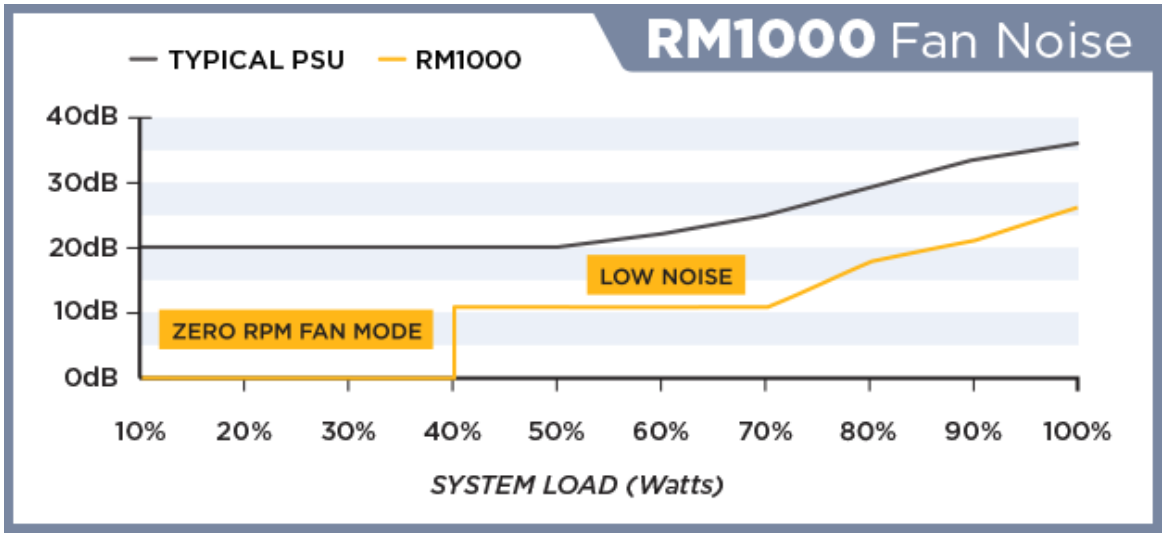







RM750 Fan Noise
TYPICAL PSU
RM750
40dB
30dB
20dB
10dB
0dB
LOW NOISE
ZERO RPM FAN MODE
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
SYSTEM LOAD (Watts)


RM850 Fan Noise
TYPICAL PSU
RM850
40dB
30dB
20dB
10dB
0dB
LOW NOISE
ZERO RPM FAN MODE
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
SYSTEM LOAD (Watts)


RM1000 Fan Noise
TYPICAL PSU
RM1000
40dB
30dB
20dB
10dB
0dB
LOW NOISE
ZERO RPM FAN MODE
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
SYSTEM LOAD (Watts)

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Shipping

Model	Part Number	UPC Code	Shipping Weight (kg)	Product Weight (kg)	Pallet QTY	Master Pack Dimensions (mm)	Master Pack	Master Pack Weight (kg)
RM550	CP-9020053-AU	843591031127	2.69	2.29	108	428 x 315 x 448	6	16.90
RM550	CP-9020053-CN	843591031134	2.69	2.29	108	428 x 315 x 448	6	16.90
RM550	CP-9020053-EU	843591031141	2.69	2.29	108	428 x 315 x 448	6	16.90
RM550	CP-9020053-JP	843591031158	2.69	2.29	108	428 x 315 x 448	6	16.90
RM550	CP-9020053-KR	843591031165	2.69	2.29	108	428 x 315 x 448	6	16.90
RM550	CP-9020053-NA	843591031172	2.69	2.29	108	428 x 315 x 448	6	16.90
RM550	CP-9020053-UK	843591031189	2.69	2.29	108	428 x 315 x 448	6	16.90
RM550	CP-9020053-WW	843591031196	2.49	2.09	108	428 x 315 x 448	6	15.70
RM650	CP-9020054-AU	843591031202	2.88	2.48	108	428 x 315 x 448	6	18.08
RM650	CP-9020054-CN	843591031219	2.88	2.48	108	428 x 315 x 448	6	18.08
RM650	CP-9020054-EU	843591031226	2.88	2.48	108	428 x 315 x 448	6	18.08
RM650	CP-9020054-JP	843591031233	2.88	2.48	108	428 x 315 x 448	6	18.08
RM650	CP-9020054-KR	843591031240	2.88	2.48	108	428 x 315 x 448	6	18.08
RM650	CP-9020054-NA	843591031257	2.88	2.48	108	428 x 315 x 448	6	18.08
RM650	CP-9020054-UK	843591031264	2.88	2.48	108	428 x 315 x 448	6	18.08
RM650	CP-9020054-WW	843591031271	2.68	2.28	108	428 x 315 x 448	6	16.88
RM750	CP-9020055-AU	843591031288	3.68	3.23	60	473 x 408 x 173	2	8.25
RM750	CP-9020055-CN	843591031295	3.68	3.23	60	473 x 408 x 173	2	8.25
RM750	CP-9020055-EU	843591031301	3.68	3.23	60	473 x 408 x 173	2	8.25
RM750	CP-9020055-JP	843591031318	3.68	3.23	60	473 x 408 x 173	2	8.25
RM750	CP-9020055-KR	843591031325	3.68	3.23	60	473 x 408 x 173	2	8.25
RM750	CP-9020055-NA	843591031332	3.68	3.23	60	473 x 408 x 173	2	8.25
RM750	CP-9020055-UK	843591031349	3.68	3.23	60	473 x 408 x 173	2	8.25
RM750	CP-9020055-WW	843591031356	3.48	3.03	60	473 x 408 x 173	2	7.85
RM850	CP-9020056-AU	843591031363	3.87	3.42	60	473 x 408 x 173	2	8.62
RM850	CP-9020056-CN	843591031370	3.87	3.42	60	473 x 408 x 173	2	8.62
RM850	CP-9020056-EU	843591031387	3.87	3.42	60	473 x 408 x 173	2	8.62
RM850	CP-9020056-JP	843591031394	3.87	3.42	60	473 x 408 x 173	2	8.62
RM850	CP-9020056-KR	843591031400	3.87	3.42	60	473 x 408 x 173	2	8.62
RM850	CP-9020056-NA	843591031417	3.87	3.42	60	473 x 408 x 173	2	8.62
RM850	CP-9020056-UK	843591031424	3.87	3.42	60	473 x 408 x 173	2	8.62
RM850	CP-9020056-WW	843591031431	3.67	3.22	60	473 x 408 x 173	2	8.22
RM1000	CP-9020062-AU	843591035521	3.81	3.36	60	473 x 408 x 173	2	8.30
RM1000	CP-9020062-CN	843591035538	3.81	3.36	60	473 x 408 x 173	2	8.30
RM1000	CP-9020062-EU	843591035545	3.81	3.36	60	473 x 408 x 173	2	8.30
RM1000	CP-9020062-JP	843591035552	3.81	3.36	60	473 x 408 x 173	2	8.30
RM1000	CP-9020062-KR	843591035569	3.81	3.36	60	473 x 408 x 173	2	8.30
RM1000	CP-9020062-NA	843591035576	3.81	3.36	60	473 x 408 x 173	2	8.30
RM1000	CP-9020062-UK	843591035583	3.81	3.36	60	473 x 408 x 173	2	8.30
RM1000	CP-9020062-WW	843591035590	3.61	3.16	60	473 x 408 x 173	2	7.90
RM450	CP-9020066-AU	843591038003	2.69	2.29	108	428 x 315 x 448	6	16.90
RM450	CP-9020066-CN	843591038010	2.69	2.29	108	428 x 315 x 448	6	16.90
RM450	CP-9020066-EU	843591038027	2.69	2.29	108	428 x 315 x 448	6	16.90
RM450	CP-9020066-JP	843591038034	2.69	2.29	108	428 x 315 x 448	6	16.90
RM450	CP-9020066-KR	843591038041	2.69	2.29	108	428 x 315 x 448	6	16.90
RM450	CP-9020066-NA	843591038072	2.69	2.29	108	428 x 315 x 448	6	16.90
RM450	CP-9020066-UK	843591038058	2.69	2.29	108	428 x 315 x 448	6	16.90
RM450	CP-9020066-WW	843591038065	2.69	2.29	108	428 x 315 x 448	6	16.90